

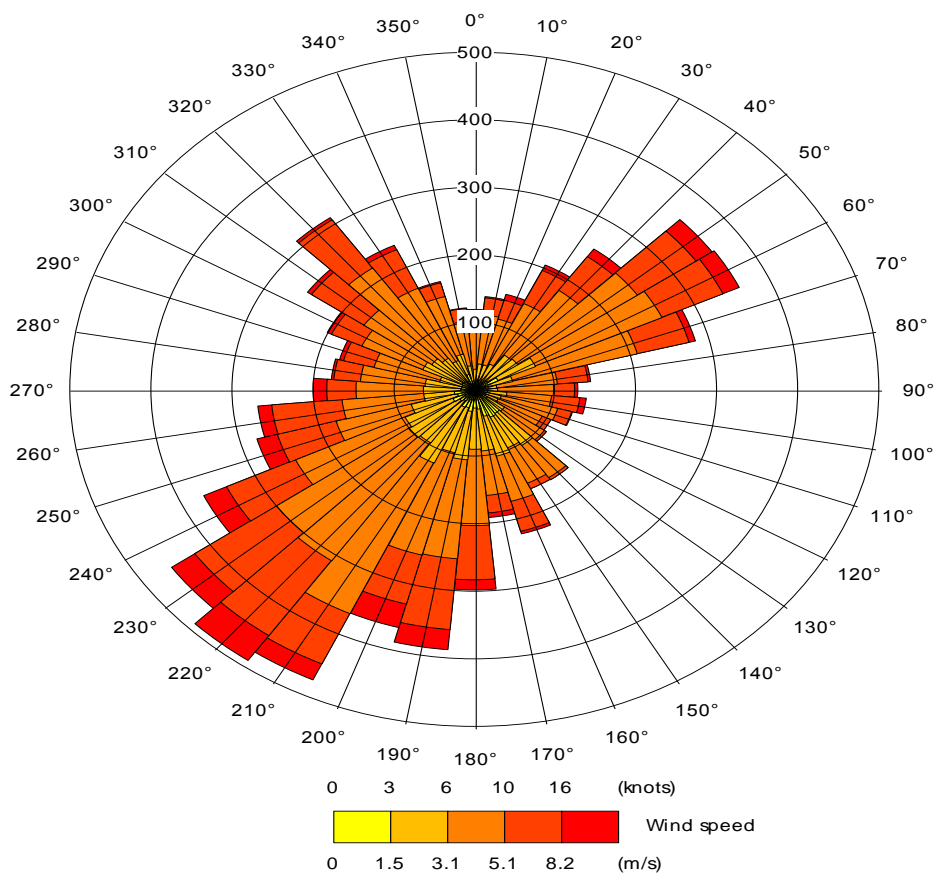
Appendix 12.1: Traffic Flow Information Used in the Air Quality Assessment, Provided by Phil Jones Associates on 12th May 2014

Link	Link Name	Speed Limit (kph)	2013 Verification and Base Year		2022 Future Year No Development		2022 Future Year With Development	
			LGV	HGV	LGV	HGV	LGV	HGV
1	Wall Hill Road	64	5520	113	8065	165	8261	169
2	Coundon Wedge Road	64	17834	180	17032	172	18839	190
3	Brownhill Green Road	64	11745	119	13392	135	13055	132
4	Long Lane	64	11166	228	12262	250	15045	307
5	Tamworth Road (North of Long Ln)	64	10145	207	12352	252	17929	366
6	Tamworth Road (North of Sandpits Ln)	48	12944	264	16500	337	15241	311
7	Tamworth Road (South of Sandpits Ln)	48	8764	179	8017	164	8806	180
8	Tamworth Road (North of Waste Ln)	48	8843	180	8012	164	8801	180
9	Waste Lane	48	5699	58	8997	91	8682	88
10	Tamworth Road (South of Waste Ln)	48	12981	265	16919	345	17395	355
11	Tamworth Road (North of R'bout)	48	12828	262	14569	297	15072	308
12	Keresley Road (South of R'bout)	48	16088	328	14966	305	15781	322
13	Keresley Road (North of Wallace Rd)	48	15590	318	14955	305	15775	322
14	Norman Place Road	48	7946	246	6338	196	6673	206
15	Wallace Road	48	5207	161	5065	157	5620	174
16	Keresley Road (South of Wallace Rd)	48	10833	221	13669	279	14712	300
17	Keresley Road (North of Sadler Rd)	48	10769	220	13669	279	14717	300
18	Brownhill Green Road	48	5629	57	6271	63	6148	62
19	Sadler Road/Radford Rd (SB)	48	8107	165	6911	141	7329	150
20	Radford Road NB Only	48	6245	127	6372	130	6837	140
21	Radford Road (North of Beake Ave)	48	12733	260	13283	271	14167	289
22	Engleton Road	48	12365	125	11852	120	12109	122
23	Radford Road (South of Engleton Rd)	48	13373	273	14283	291	14876	304
24	Beake Avenue	48	12574	127	12959	131	12943	131

Link	Link Name	Speed Limit (kph)	2013 Verification and Base Year		2022 Future Year No Development		2022 Future Year With Development	
			LGV	HGV	LGV	HGV	LGV	HGV
25	The Scotchill	48	9621	196	9647	197	9266	189
26	Keresley Green Road (North of R'bout)	48	8372	171	7705	157	8547	174
27	Bennetts Road S (South of Sandpits Ln)	48	7862	243	7653	237	8826	273
28	Bennetts Road S (North of Sandpits Ln)	48	10208	208	11420	233	10748	219
29	Bennetts Road S (South of Penny Pk Ln)	48	8941	277	11309	350	10528	326
30	Penny Park Lane	48	5361	109	5207	106	5477	112
31	Bennetts Road S (North of Penny Pk Ln)	48	4578	142	6197	192	9434	292
32	Sandpits Lane (West of Bennetts Rd S)	48	7538	76	8698	88	6672	67
33	Sandpits Lane (East of Tamworth Rd)	48	6592	67	8580	87	6517	66
34	Tamworth Road (North of Site Access)	48	10145	207	12064	252	12346	252
35	Development Site Through Road	48	0	0	0	0	4828	0
36	Bennetts Road S (North of Site Access)	48	4578	142	6197	192	6186	191
A	Links Road	48	1564	32	-	-	-	-
B	Catesby Road	48	4256	87	-	-	-	-
C	Grangemouth Road (North)	48	3724	76	-	-	-	-
D	Grangemouth Road (South)	48	3391	69	-	-	-	-
E	Cheveral Avenue	48	2639	54	-	-	-	-
F	Burnaby Road	48	18718	382	-	-	-	-
G	Lockhurst Lane	48	14026	286	-	-	-	-
H	B4118 Holbrook Lane NB	48	11146	227	-	-	-	-
I	B4118 Holbrook Lane SB	48	12661	258	-	-	-	-
J	B4118 Holbrook Way	48	21023	429	-	-	-	-

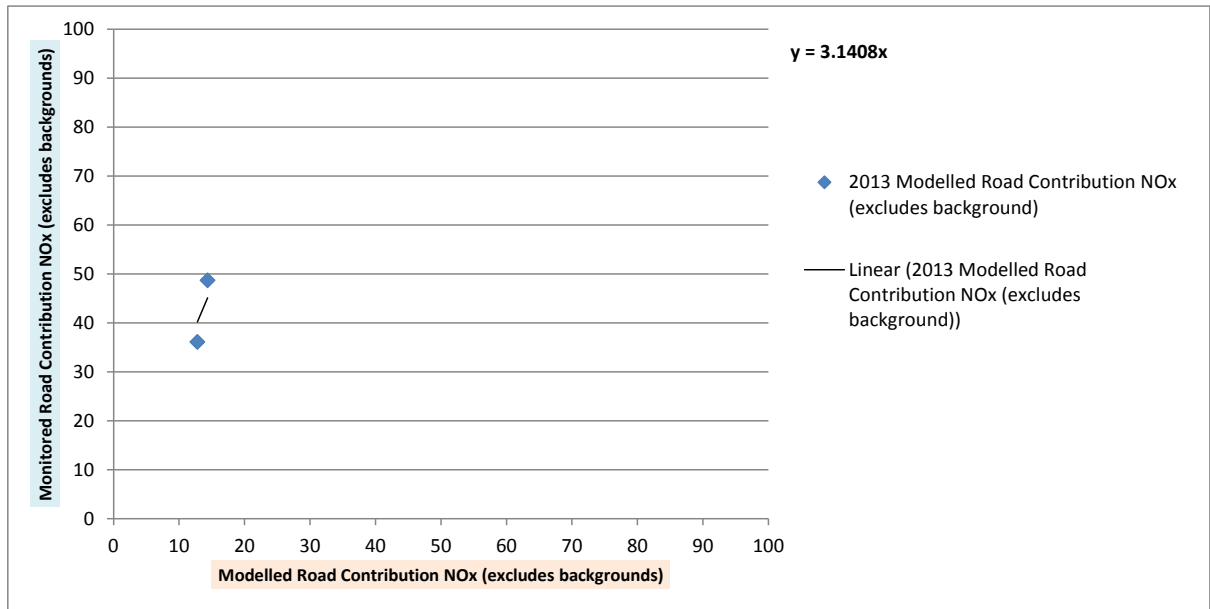
Flows Provided in 24 Hour AADT Format

Appendix 12.2: 2013 Wind Rose for Coventry Airport Meteorological Recording Station

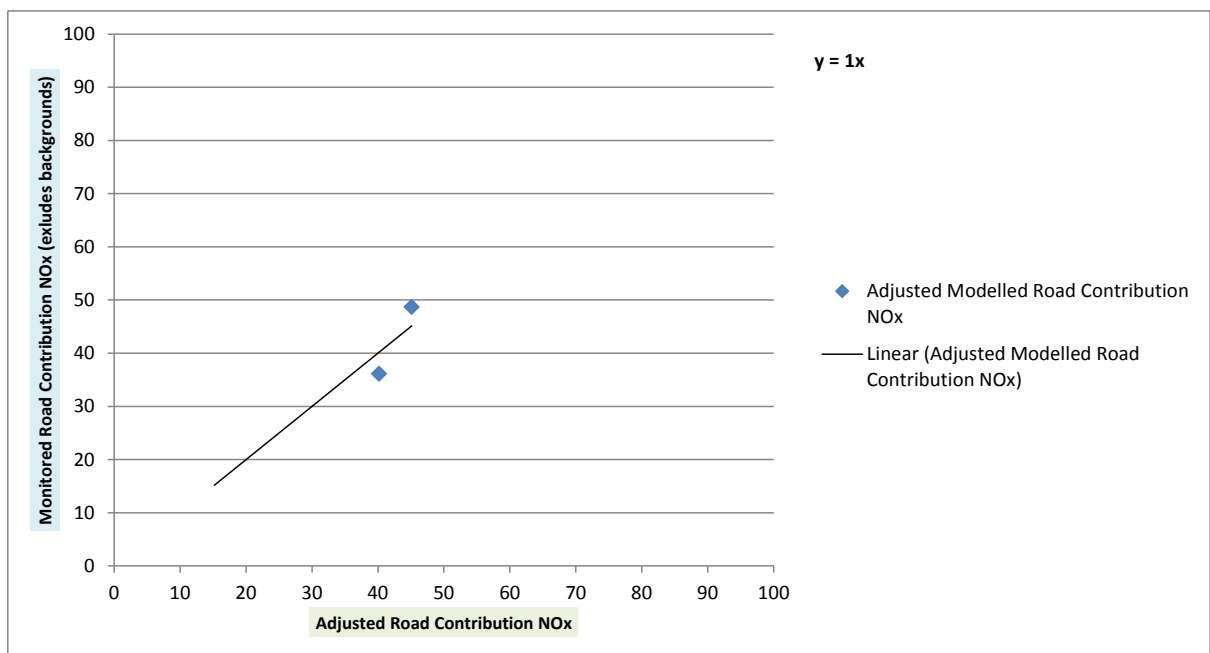


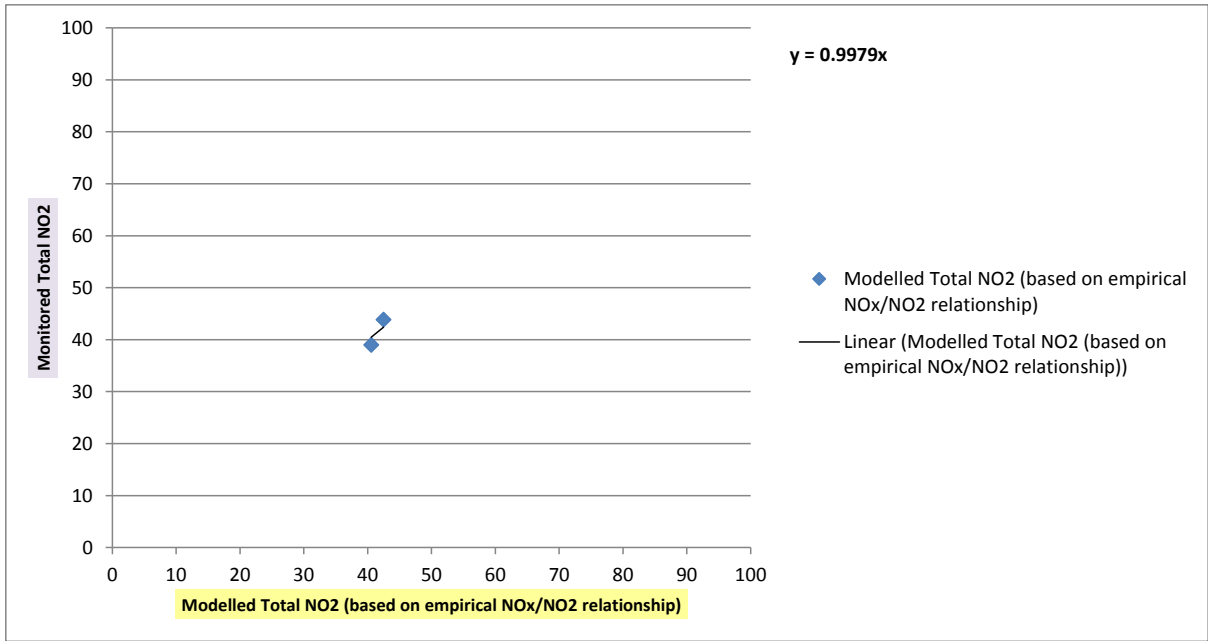
Appendix 12.3: Model Verification

Address	2013 Monitored Total NO2	2013 Monitored Total NOx	2013 Background NO2	2013 Background NOx	Monitored Road Contribution NO2 (total - background)	Monitored Road Contribution NOx (excludes background)	Modelled Road Contribution NOx (excludes background)
HL1	43.84	81.96	22.81	33.26	21.03	48.70	14.36
BRN2	38.97	69.40	22.81	33.26	16.16	36.14	12.79



Address	Ratio of Monitored Road Contribution NOx / Modelled Road Contribution NOx	Adjustment Factor for Modelled Road Contribution	Adjusted Modelled Road Contribution NOx	Adjusted Modelled Total NOx (including background NOx)	Adjusted Modelled Total NO2	Monitored Total NO2	% Difference [(modelled - monitored) / monitored] x 100
HL1	3.39		45.11	78.37	42.48	43.84	-3.10
BRN2	2.83		40.17	73.43	40.57	38.97	4.11
		3.1408					





Appendix 12.4: Air Quality Assessment Results

Receptor	2013 Verification and Base Year			2022 Future Year No Development			2022 Future Year With Development		
	NO _x	NO ₂	PM ₁₀	NO _x	NO ₂	PM ₁₀	NO _x	NO ₂	PM ₁₀
ESR 1	42.01	27.04	18.26	43.61	27.79	18.32	45.10	28.48	18.36
ESR 2	45.85	28.83	18.36	48.83	30.19	18.45	48.20	29.91	18.43
ESR 3	52.54	31.86	18.55	56.66	33.66	18.66	57.36	33.96	18.69
ESR 4	46.30	29.04	18.39	47.75	29.70	18.44	50.22	30.82	18.52
ESR 5	39.50	25.85	18.14	41.20	26.66	18.19	44.69	28.29	18.30
ESR 6	47.77	29.71	18.39	47.92	29.78	18.40	49.23	30.38	18.44
ESR 7	51.30	31.30	18.48	51.01	31.17	18.47	52.02	31.62	18.50
ESR 8	55.86	33.31	18.68	55.19	33.02	18.65	56.15	33.44	18.69
ESR 9	44.28	28.10	18.30	46.45	29.11	18.37	47.31	29.50	18.40
ESR 10	51.67	31.47	18.55	52.20	31.70	18.57	53.15	32.13	18.60
ESR 11	35.88	24.10	18.03	36.40	24.35	18.04	37.09	24.69	18.07
PR 1	-	-	-	-	-	-	43.11	27.56	18.28
PR 2	-	-	-	-	-	-	48.91	30.23	18.41
PR 3	-	-	-	-	-	-	53.71	32.37	18.63
PR 4	-	-	-	-	-	-	47.56	29.61	18.46
Corrected NO _x and NO ₂ Concentrations. Uncorrected PM ₁₀ Concentrations									